

COMMUNITY DEVELOPMENT DEPARTMENT SEA LEVEL RISE ADAPTATION PLAN SUBCOMMITTEE

August 1, 2018 Subcommittee Meeting #1

Meeting Topics

1. Introductions
2. Challenges of SLR Planning
3. Team and Stakeholders
4. Role of Subcommittee
5. Federal, State, Regional SLR Work
6. City SLR Work and LCP Update
7. Scope of Adaptation Plan
8. Schedule
9. Upcoming Meetings



INTRODUCTIONS

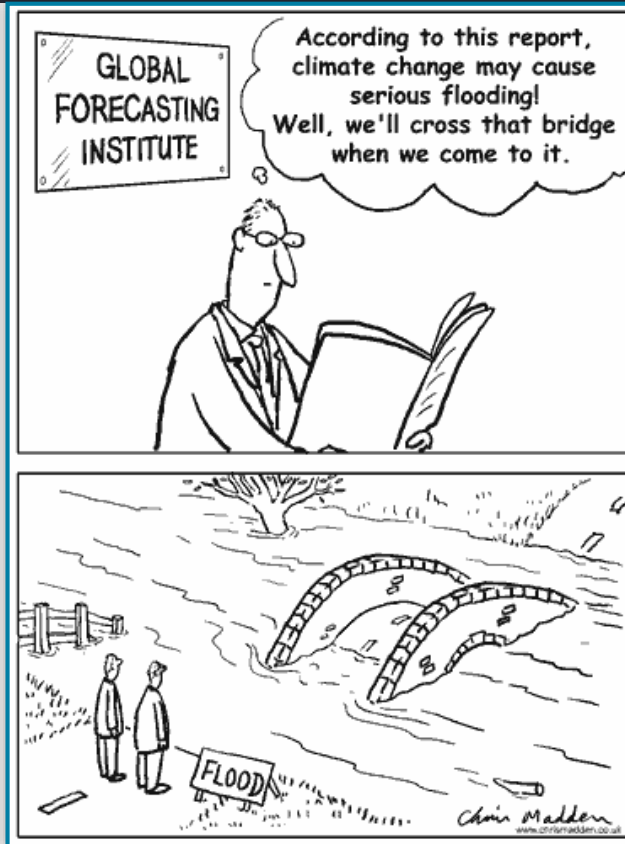
SLR Subcommittee Members

- **Eric Friedman,**
City Council
- **Jason Dominguez,**
City Council
- **Kristen Sneddon,**
City Council
- **Deborah Schwartz,**
Planning Commission
- **Lesley Wiscomb,**
Planning Commission
- **Dave Davis,**
Water Commission
- **Beebe Longstreet,**
*Parks and Recreation
Commission (alternate
Nichol Clark)*
- **Jim Sloan,**
Harbor Commission
- **Betsy Cramer,**
Harbor Commission

CHALLENGES OF SLR PLANNING

SLR: A Challenging Issue

- Based on probabilities
- Must visualize future impacts and changes
- Climate grief
- *“We’ll think about that tomorrow”*



SLR Planning: Why Now?

- We have some time until severe impacts
- However, the eventual impacts will require us to revision the waterfront, low lying areas of downtown, and coastal bluff areas
- Many potential adaptation strategies will take significant planning and financing
- **We have the most options now!**
- This plan is just the start of a longer process



Santa Barbara Newspress

1982-83 El Nino

TEAM AND STAKEHOLDERS

Project Management

- Melissa Hetrick, Planning Division
- Timmy Bolton, Planning Division
- Krystal Vaughn, CD Administration



Consultants

- Environmental Science Associates (ESA)
 - *Planners and coastal engineers*
 - *Experience with SLR hazard modeling, vulnerability assessments and adaptation plans*
- AECOM
 - *Economic and fiscal analysis*
- Other subconsultants
 - *Bluff geology, biological resources, public outreach*



City Staff Interdepartmental SLR Team

- Scott Vincent, *City Attorney's Office*
- Jill Murray, *Creeks Division*
- Robert Samario, *Finance Division*
- Rich Hanna, *Parks and Recreation Department*
- Sara Iza, *Public Works Department*
- Karl Treiberg, *Waterfront Department*



Staff Interdepartmental SLR Team

- Other Advisory:
 - Matt Fore, *City Administrators Office*
 - Andrew Bermond, *Airport Department*
 - Andrew Stuffer, *Building and Safety Division*
 - George Johnson, *Creeks Division*
 - Yoli McGlinchey, *Emergency Services (Fire Dept)*
 - Debra Andaloro, *Planning Division*



Staff Interdepartmental SLR Team



- Other Advisory (cont.):
 - Renee Brooke, *Planning Division*
 - Brian D'Amour, *Public Works Department*
 - George Buell, *Community Development Director*
 - Jill Zachary, *Parks and Recreation Director*
 - Rebecca Bjork, *Public Works Director*
 - Scott Riedman, *Waterfront Director*

CCC Consultation

- Grant management
- Reviews scope of plan
- Comments on plan components
- Certifies LCP Amendment



CALIFORNIA
COASTAL
COMMISSION

Other Stakeholders

- Other Federal and State agencies
- Neighboring jurisdictions
- Other coastal cities
- SLR networks and working groups
- Community members
- Landowners
- Organizations
- Businesses and hotels
- Consultants and architects
- Harbor, beach, and recreation users
- Visitors



ROLE OF SLR SUBCOMMITTEE

Role of the SLR Adaptation Plan Subcommittee

- SLR Adaptation Planning:
 - Become knowledgeable about the City's vulnerabilities
 - Develop guiding principles for adaptation
 - Review, consider, and prioritize potential adaptation strategies
 - Recommend next steps
- Be a SLR Adaption Plan Ambassador
 - Council and Commissions
 - Stakeholder involvement and public outreach

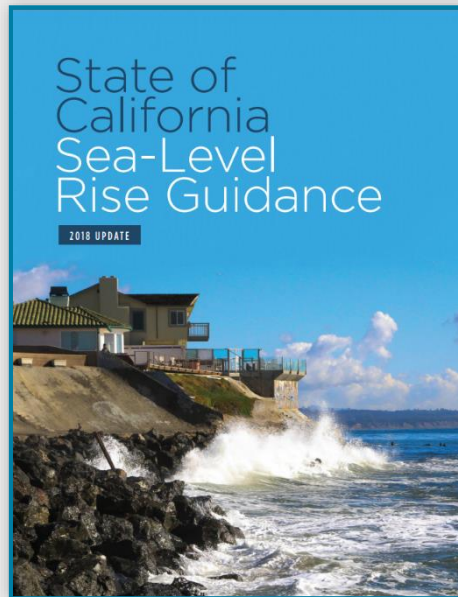
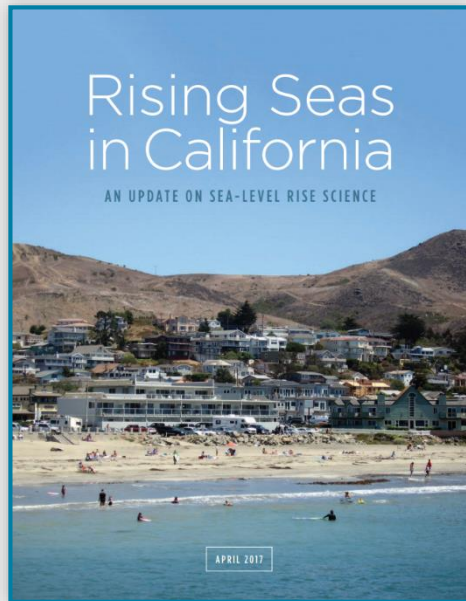
FEDERAL, STATE, AND REGIONAL SLR WORK

Federal Work on SLR and Coastal Hazards

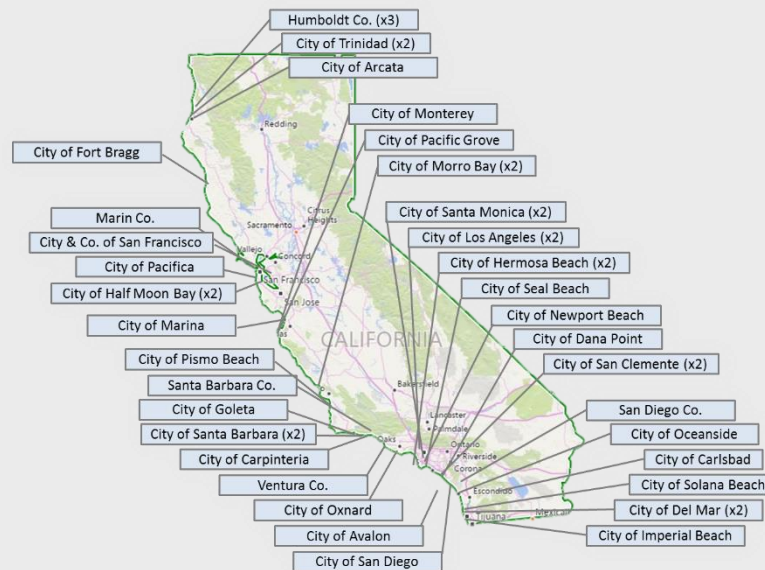
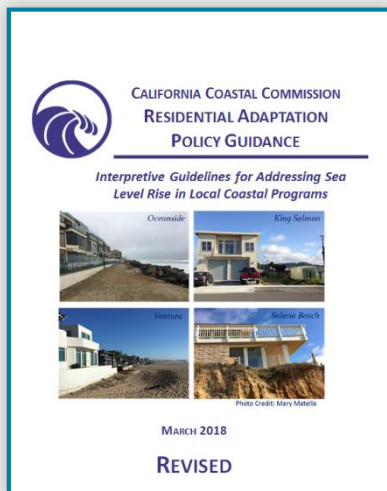
- USGS
 - Coastal Storm modeling System (CoSMoS)
 - Our Coast, Our Future Tool
- FEMA
 - Revised flood maps for Santa Barbara
 - Informational sea level rise maps



State Guidance

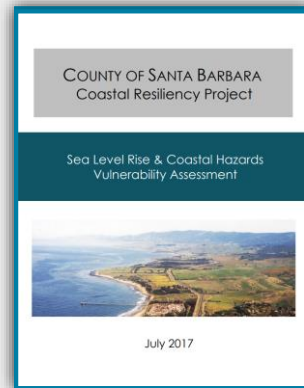


- Guidance Documents
- Grants for SLR Planning and LCP updates



Regional SLR Work

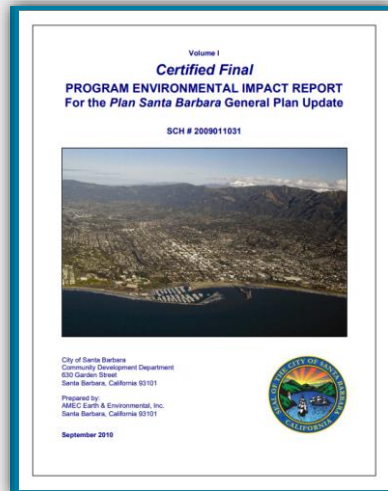
- Santa Barbara County:
 - *Coastal Resiliency Modeling (completed)*
 - *Coastal Hazards Vulnerability Assessment (completed)*
 - *Draft LCP Amendment (in progress)*
 - *Adaptation Plan not yet funded*
- City of Goleta
 - *Coastal Hazards Vulnerability and Fiscal Impacts Report (approved)*
- City of Carpinteria:
 - *Recently released Draft Coastal Vulnerability and Adaptation Report*
- S.B. Area Coastal Ecosystem Vulnerability Assessment



CITY'S SLR WORK AND LCP UPDATE

Previous City SLR Work

- 2010 Plan Santa Barbara FEIR
- 2012 Griggs/Russell SLR study
- 2013 Safety Element and Updated Hazard Mitigation Plan:
 - *Included information from Griggs/Russell*
 - *Directs preparation of Adaptation Plan*
- 2015 BREN Vulnerability Assessment



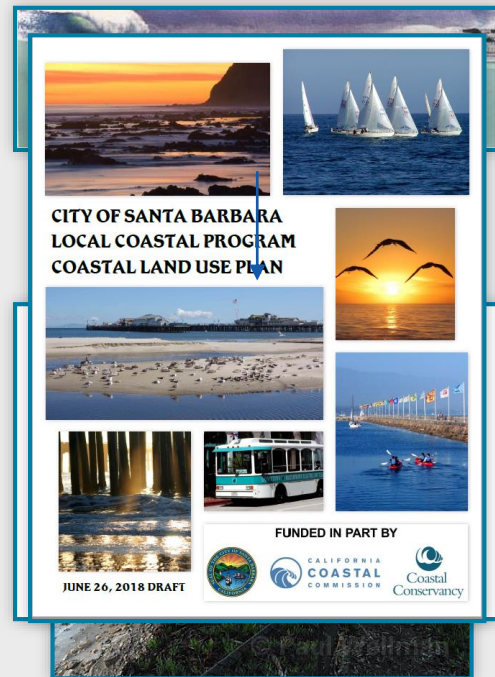
Previous City SLR Work

- 2015 Goleta Slough Area Sea Level Rise and Management Plan
- 2016 Updated Coastal Resiliency Modeling for City
 - *Started with County of Santa Barbara modeling*
 - *Incorporated in existing shoreline structures*



Current City SLR Work

- Draft Coastal Land Use Plan
 - Utilizes USGS CoSMoS modeling
 - Interim SLR Policies:
 - *Shoreline hazards screening areas*
 - *Development standards*
 - *Coastal bluff edge mapping and buffers*
 - *Addresses shoreline protection*
 - Requires Preparation of SLR Adaptation Plan



Current City SLR Work

- CCC grant funded SLR Adaptation Plan:
 - *Updated Vulnerability Assessment*
 - *Economic and Fiscal Impacts analysis*
 - *Adaptation Strategies*
 - *Public Outreach*



SCOPE OF ADAPTATION PLAN

Updated Vulnerability Assessment

- City (main portion, excludes airport)
- 2030, 2060, and 2100
- Based on State guidance
- Hazard modeling
 - *Increased frequency and extent of flooding, wave impacts, coastal bluff erosion, and beach erosion*
- Impacts to private and public assets
- Economic and fiscal impacts



Photo Credits: California King Tide Initiative

Guiding Principles and Potential Adaptation Strategies Memo

- Guiding principles of adaptation planning
- Potential adaptation strategies to be looked at further
- Criteria for prioritizing adaptation strategies

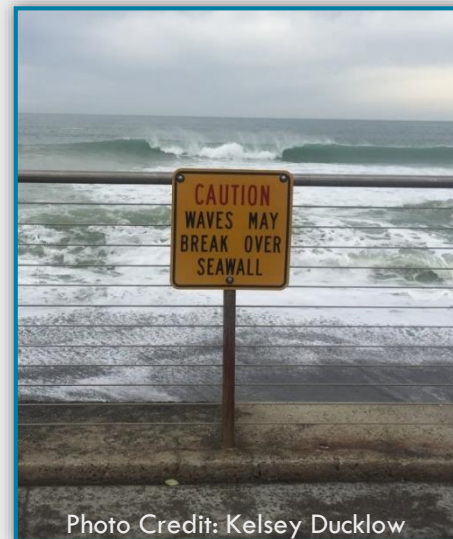


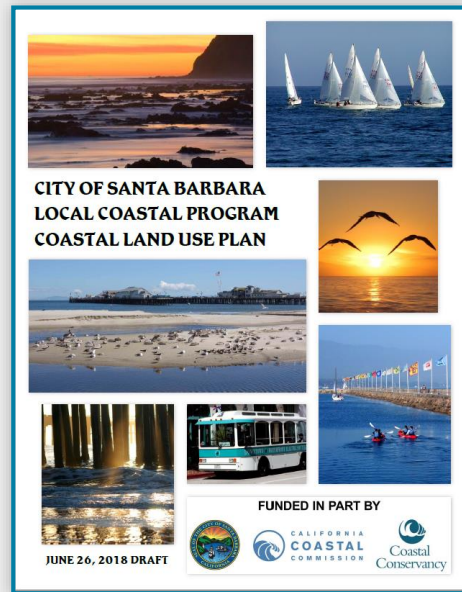
Photo Credit: Kelsey Ducklow

Contents of SLR Adaptation Plan

- Findings of Vulnerability Assessment
- Guiding principles of adaptation planning
- Cost and benefits of adaptation strategies
(feasibility, effectiveness, economic / fiscal impacts, environmental impacts, legal issues)
- Evaluation criteria and prioritization of strategies
- Triggers for implementation
- Identification of additional work needed

Local Coastal Program Amendment

- Revisions to interim policies in Coastal LUP
- Must be approved by City Council and CCC



SCHEDULE

Schedule

- **September:** Preliminary Draft Vulnerability Assessment
- **September/October:** Guiding Principles and Potential Adaptation Strategies Memo
- **October-January:** Adaptation planning
- **January, 2019:** Preliminary Draft Adaptation Plan
- **April, 2019:** Draft Adaptation Plan
- **April, 2019:** Preliminary Draft LCP Amendment

UPCOMING MEETINGS

Upcoming Meetings

- Wednesday, August 8th:
 - *Sea level rise background*
 - *Sea level rise projections for Santa Barbara*
 - *Types of impacts from sea level rise*
 - *Hazard maps for Santa Barbara*
- Early September:
 - *Assets impacted and economic/fiscal impacts*
 - *Deliver Draft Vulnerability Assessment for review*

Upcoming Meetings

- End of September:
 - *Comments on Vulnerability Assessment*
 - *Deliver Draft Guiding Principles and Adaptation Strategies Memo*
- Mid October:
 - *Comments on Guiding Principles and Potential Adaptation Strategies Memo*
- Mid November:
 - *Adaptation planning continued*